MP MASTER
MA33492

Digitized by the Internet Archive
in 2025

https://archive.org/details/manualsplus_11388

QUALITY ASSURANCE
STANDARDS, CALIBRATION, AND
MAINTENANCE LAB.

OPERATING INSTRUCTIONS
MODEL 8053
MECHANIZED DIP HANDLER WITH
THREE POSITION SORT

DELTA DESIGN INC.
5725 KEARNY VILLA ROAD, SAN DIEGO, CALIFORNIA - TEL (714) 292-5000 - TWX: (910) 335-1215 - CABLE: DELTA
92123

8053-0274
Printed in U.S.A.

OPERATING INSTRUCTIONS

MODEL 8053

MECHANIZED DIP HANDLER WITH THREE POSITION SORT

Refer to Model 8012 Instruction Manual for basic description of the handler.

1. System Description

1.1 Control Box Switch Functions

1.1.1 ON-OFF-JOG Switch - This switch supplies power to the Handler and the Control Box. Switch to the ON position for normal operation in the automatic and manual modes. The JOG position is a momentary function to facilitate the initial set up and alignment of the mechanism, and to clear jams.

1.1.2 AUTO-MAN Switch - The AUTO position causes the cycling and sorting of the handler to be controlled by the tester. The MAN (manual) position retains control of the handler to the control box; hence, the devices are cycled and sorted via the class switches.

1.1.3 START TEST

1.1.3.1 Manual Mode - Issues a start test (or retest) command for the tester.

1.1.3.2 Auto Mode - Gives an initial start test

for the tester. The handler will cycle automatically until (1) the storage track fills, (2) a device does not clear the sort gate, or (3) main power to the handler is removed.

1.1.4 CL.A, CL.B, CL.C Switches - Operable in the manual mode only.

1.1.4.1 NOTE: CL.A - Depressing this button will cause the sort gate to switch to the left output track and the handler to cycle once.

1.1.4.2 CL.B - Depressing this button will cause the handler to cycle once; the tested device being routed to the center position.

1.1.4.3 CL.C - Depressing this button will cause the sort gate to switch to the right output track and the handler to cycle once. After a tested device has passed the output photosensor, the sort gate will return to the center (class B) rest position.

NOTE: The output photosensor (in the manual mode) does not serve the function of a sleeve full protection. Do not expect the cycle switches to be inhibited if the track overfills.

NOTE: Depress these switches momentarily only or automatic cycling will result.

1.2 Method of Operation

1.2.1 Sort Gate - This three position arm routes tested devices to either the left, center, or right position depending upon the sort signal received. This gate is controlled by two solenoids located directly below the sort arm in the channel area. In the de-energized state, the sort gate will assume the left (class A) position.

1.2.2 Photosensor - An output photosensor is located directly after the sort gate and serves two functions. In the manual and automatic modes, the sensor detects devices which have been subjected to a test and sort. If a device has been sorted to either the left (class A) or right (class C) the sensor will cause the solenoids to de-energize and the sort arm to return to the center rest position. In the automatic mode only, the sensor

serves as a full sleeve detector. Should a sleeve overfill to the point of blocking the photosensor, the cycling will be inhibited until the obstruction is removed and the start test switch depressed.

1.2.3 Sleeve Retainers - The three sleeve retainers hold the output sleeves in place while the unit is in operation. Removing a sleeve will cause a detent stop to be exposed thereby impeding the passage of devices without a sleeve in place. To discharge devices into a bulk source, a sleeve must be inserted into the retainer and either (1) remove the end plug from the sleeve or (2) cut off a portion of the sleeve.

2. Initial Set Up-Read the manual thoroughly before operating.

2.1 Set up the handler mechanism (per the manual) to operate with the type of devices to be tested.

2.2 Utilizing the edge connectors provided with the handler, interface the contactor assembly with the I.C. tester.

2.3 Interface the handler control cable to the I.C. tester. (Refer to cable interface sheet for wire assignments).

3. Operation

3.1 Connect power plug to power source.

3.2 Install three empty sleeves in the output retainers.

3.3 Place a full sleeve of devices in the input.

3.4 Select the mode of operation to be incorporate, e.g. automatic or manual.

3.5 Manual

3.5.1 Depress any cycle button to enable the first device to enter the contact area.

3.5.2 Depress the start test button.

3.5.3 Perform any tests or re-tests required and push the cycle button which corresponds to the desired output sleeve. NOTE: Push the cycle button and release immediately or automatic cycling will result.

3.5.4 Repeat steps 3.5.2 and 3.5.3 until the input supply is exhausted-replace the empty input sleeve with a full sleeve.

3.5.5 Replace full output tubes as they become filled.

3.6 Automatic

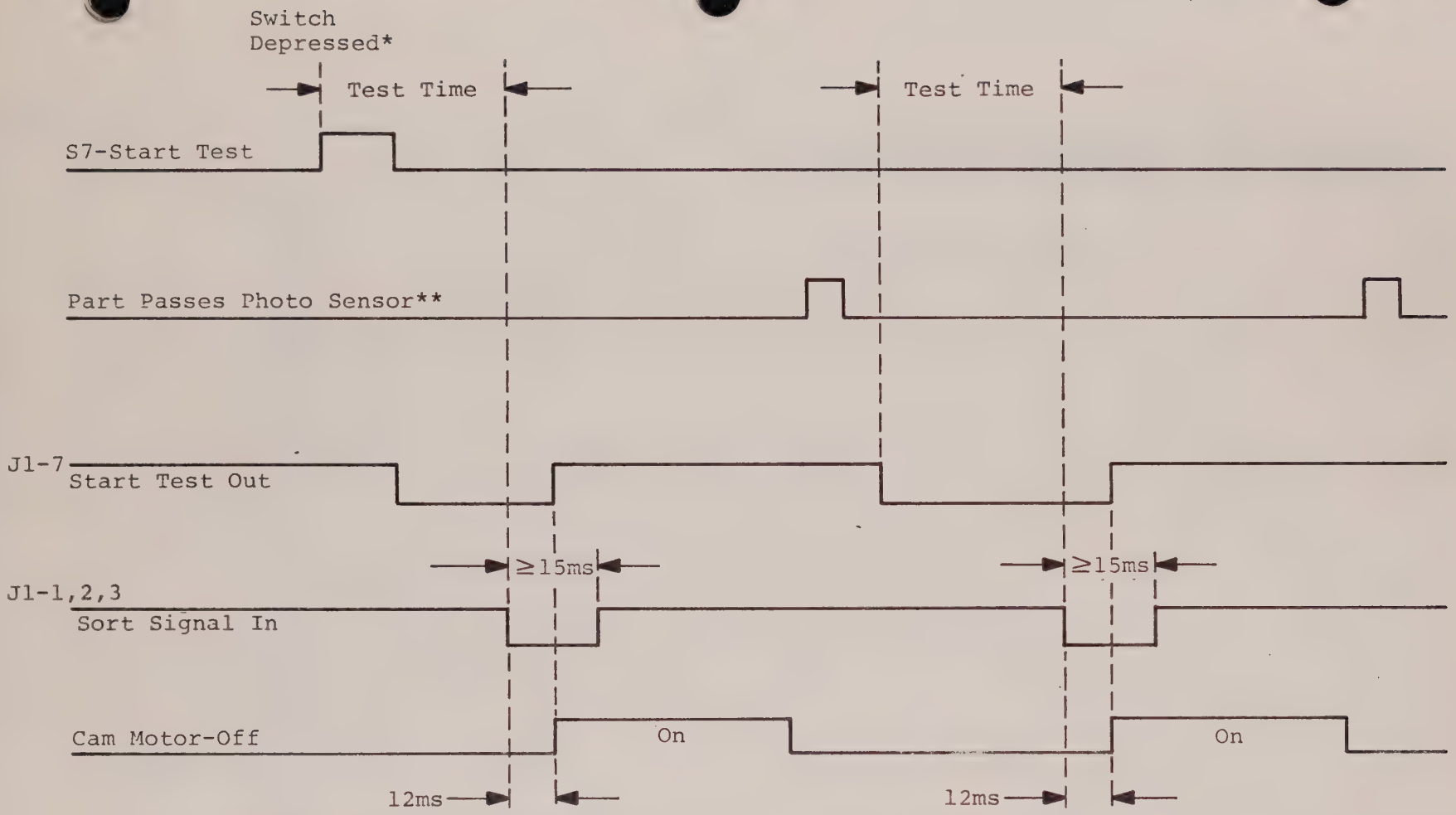
3.6.1 Switch the handler to MAN. and depress any cycle button to enable the first device to enter the contactor.

3.6.2 Switch the AUTO/MAN switch back to the AUTO position.

3.6.3 Depress the START TEST switch to begin operator - free automatic test and sort function.

3.6.4 Replace empty input sleeve and full output sleeves as may become necessary.

3.6.5 If the handler operation is inhibited due to a photosense function, the cause for inhibit must be cleared and the START TEST button depressed to resume normal operation.



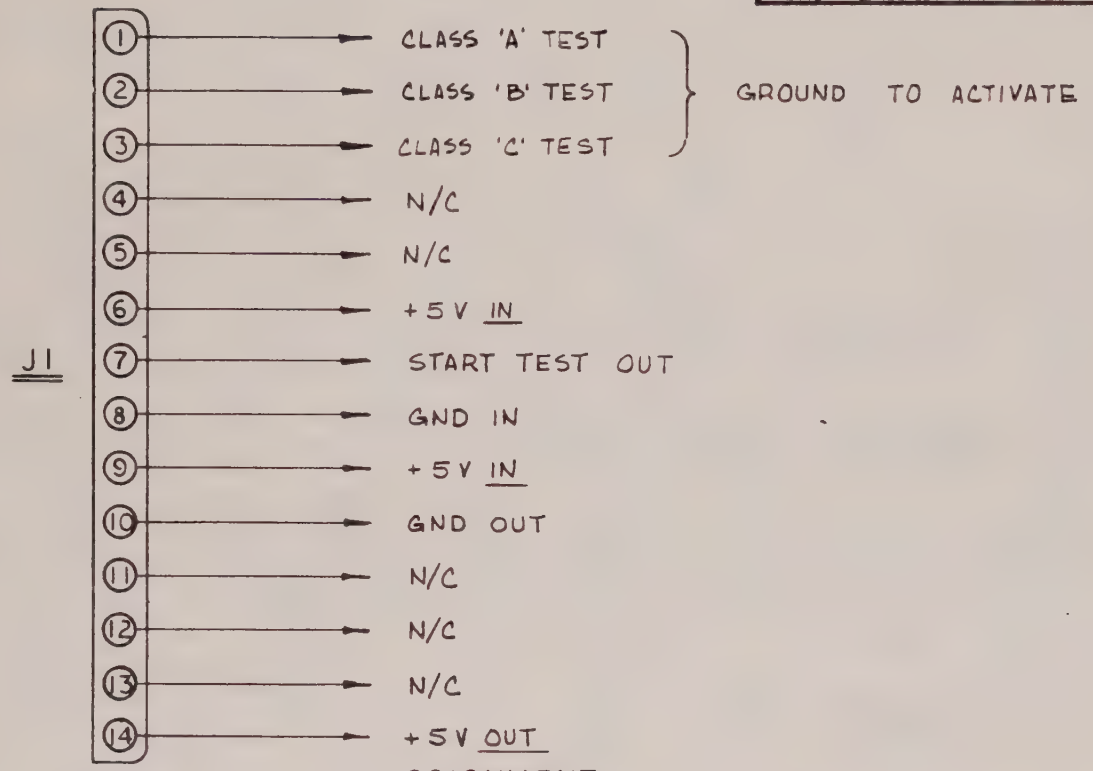
NOTE: Part must be in contactor when S7 switch is depressed (reference Paragraph 3.6).

* Initiates operation-manual or automatic.

** Timing varies due to weight, surface material, etc.

TIMING DIAGRAM-8053 HANDLER
FIGURE 1

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPD



PIN ASSIGNMENT

DASH-QTY	NEXT ASSY	USED ON	SERIAL NO.	DATE EFF	DWG REV
APPLICATION			EFFECTIVITY		

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
DECIMALS: .XX ± .03; .XXX ± .010
ANGLES: 0° 30'
HOLE TOLERANCES

MATERIAL ⚠
FINISH ⚠

ENGINEERING ACTIVITY

DESIGN	
DRAFTED	DELTA
CHECKED	
APPROV	
RELEASE	

DO NOT SCALE DWG

DELTA DESIGN INC.
A SUBSIDIARY OF CONTROL DATA CORP.
SAN DIEGO, CA. 92123

TITLE: TEST CONNECTION MODEL 8053

SIZE	CODE IDENT	
B		1640304

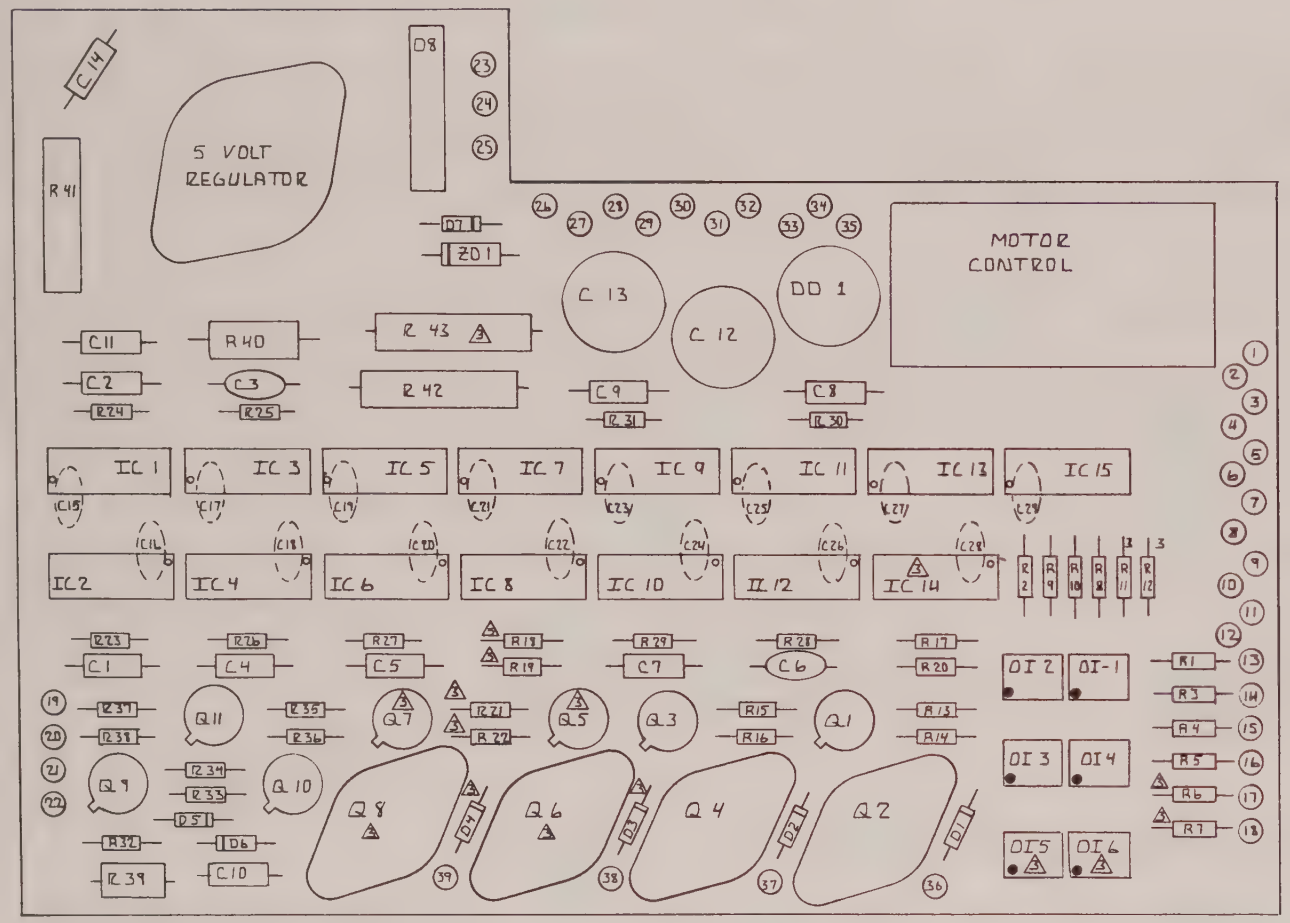
SCALE | SHEET ___ OF ___

⚠ FINISH (IF APPLICABLE)

⚠ MATL (IF APPLICABLE)

NOTES: UNLESS OTHERWISE SPECIFIED

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPD



⚠3 THESE COMPONENTS FOR FIVE SORT ONLY

⚠ FINISH (IF APPLICABLE)

⚠ MATL (IF APPLICABLE)

NOTES: UNLESS OTHERWISE SPECIFIED

DASH	QTY	NEXT ASSY	USED ON
APPLICATION			

SERIAL NO.	DATE EFF	DWG REV
EFFECTIVITY		

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
DECIMALS: .XX ± .03, .XXX ± .010
ANGLES: 0° 30'

HOLE TOLERANCES

.013 THRU .125	+.004 −.001	.321 THRU .500	+.006 −.001
.126 THRU .320	+.005 −.001	.501 THRU .750	+.008 −.001

MATERIAL ⚠1	
FINISH ⚠2	

ENGINEERING ACTIVITY

DESIGN	
DRAFTED	DELTA
CHECKED	
APPROV	
RELEASE	
DO NOT SCALE DWG	

DELTA DESIGN INC.
A SUBSIDIARY OF CONTROL INC.
SAN DIEGO, CA. 92123

TITLE: ASSEMBLY P.C BOARD
MODEL 8053

SIZE	CODE IDENT	
C		1640305
SCALE		SHEET ___ OF ___

DELTA DESIGN INC. 5725 KEARNY VILLA RD. SAN DIEGO, CA. 92123

ITEM NO	ASSY. & QTY. -001		-003	-004	SIZE	DWG. NUMBER	PART DESCRIPTION	MFG.& MFG. PART NO	STOCK OR PART NO
00	X				C	1640305	P/C. ASSY. MODEL 8053		1640305-001
00									
00									
00									
00						D1640306	P/C SCHEMATIC MODEL 8053		
00									
00									
01	7						INT. CIRCUIT IC 1, IC2, IC4, IC6	74121	
							IC 10, IC11, IC 12		
02	3						INT. CIRCUIT IC3, IC8, IC9	7400	
03	2						INT CIRCUIT IC5, IC13,	7474	
04	1						INT CIRCUIT IC7	7420	
05	1						INT CIRCUIT IC15	7430	
06	2						OPTICAL ISOLATOR OI1-OI4	TIL 113	
07									
08	5						TRANSISTOR Q1, Q3, Q9, Q10, Q11	2N3569	
09	2						TRANSISTOR Q2, Q4,	2N3054	
10									
11									
12	3						DIODE/DIODE BRIDE/ZENER, D1, D2	1N4002	
							D7.		

REV	ECN	DATE	BY	APPD	NOTES

TITLE & MODEL NUMBER USAGE

MODEL 8053

BY	A. MUSTAFA	9-25-74	NEXT ASSY.
CHK			
APPD	R Brooks	9-24-74	

P/L 1640305 REV SHT 1 OF 4

DELTA DESIGN INC. 5725 KEARNY VILLA RD. SAN DIEGO, CA. 92123

ITEM NO	ASSY. & QTY. -001	-002	-003	-004	SIZE	DWG. NUMBER	PART DESCRIPTION	MFG.& MFG. PART NO	STOCK OR PART NO
13	2						DIODE, D5, D6	IN3064	
14	1						DIODE, D8	MDA 970-2	
15	1						DIODE, ZD-1	IN5352	
16	1						MOTOR SUPPRESSOR DDI-GE	6RS-20 SP585	
17									
18	1						RES. 10K. 1/4 W R1		
19	1						RES. 300Ω 1/4W R2		
20	3						RES. 680Ω 1/4W R3, R4, R5.		
21	6						RES. 2K 1/4W R8, R9, R10, R13		
							R15, R33		
22									
23	2						RES, 500Ω 2W R14, R16		
24	7						RES 30K 1/4 W R23, R24, R26		
							R27, R28, R29, R30		
25	2						RES 3.6K 1/4W R25. R38		
26	2						RES 1K, 1/4 W R31, R32		
27	1						RES 150K 1/4W R34		
28	1						RES 18K 1/4 W R35		
29	1						RES 15Ω 1/4 W R36		
30	1						RES 4.7 K 1/4W R37		
31	1						RES 5K TRIM POT R39	BECKMAN 72XLR5K	

REV	ECN	DATE	BY	APPD

NOTES

TITLE & MODEL NUMBER USAGE

MODEL 8053

BY	A. MUSTAFA	9-25-74	NEXT ASSY.
CHK			
APPD	R Brooks	9-24-74	

P/L 1640305 REV SHT 2 OF 4

DELTA DESIGN INC. 5725 KEARNY VILLA RD. SAN DIEGO, CA. 92123

ITEM NO	ASSY. & QTY. -001		-003	-004	SIZE	DWG. NUMBER	PART DESCRIPTION	MFG.& MFG. PART NO	STOCK OR PART NO
32	1						RES 43Ω 1W R40		
33	1						RES 20Ω 5W R41		
34	1						RES 30Ω 5W R42,		
35									
36									
37	6						CAPACITORS .1μF C1,C4,C7		
							C10, C11, C14		
38	1						CAPACITOR .2UF C2		
39	2						CAPACITORS .01UF, C3, C9		
40	1						CAPACITOR 2UF, C5		
41	1						CAPACITOR .3UF, C6		
42	1						CAPACITOR 10UF, C8		
43	2						CAPACITORS 500UF, 50V, C12, C13		
44	2						CAPACITORS .001UF C15, C29		
45									
46									
47	1						TRANSFORMER T1	TRIAD F41-X	
48									
49									
50	1								
51									

REV	ECN	DATE	BY	APPD

NOTES

TITLE & MODEL NUMBER USAGE

MODEL 8053

BY	A. MUSTAFA.	9-25-74	NEXT ASSY.
CHK			
APPD	R Brooks	9-24-74	

P/L 1640305 REV SHT 3 OF 4

DELTA DESIGN INC. 5725 KEARNY VILLA RD. SAN DIEGO, CA. 92123

ITEM NO	ASSY. & QTY. -001		-003	-004	SIZE	DWG. NUMBER	PART DESCRIPTION	MFG.& MFG. PART NO	STOCK OR PART NO
52	1						CONNECTOR J1	AMPHENOL 57-40140	
53	1						CONNECTOR P1	AMPHENOL 57-30140	
54									
55									
56	1						POWER SUPPLY REGULATOR	F 7805KC	
57									
58									
59	1						R.F. FILTER	CDE NO. IF54	
60									
61									
62	1						SOLENOID SOL1, SOL2	LEDEX 7337	
63									
64									
65	1						SENSOR, PHOTOCELL	VT211H	
66	1						SENSOR, LIGHT	CM8111	
67									
68									
69	1						SWITCH S1 (TOGGLE SPDT)	ALCO MST 105D	
70	3						SWITCH, S2, S3, S4 (PUSH BUTT. SPDT)	ALCO MST 105F	
71	1						SWITCH S8, (TOGGLE DPDT)	ALCO MST 205T	
72	1						SWITCH, S9	CAM SWITCH	

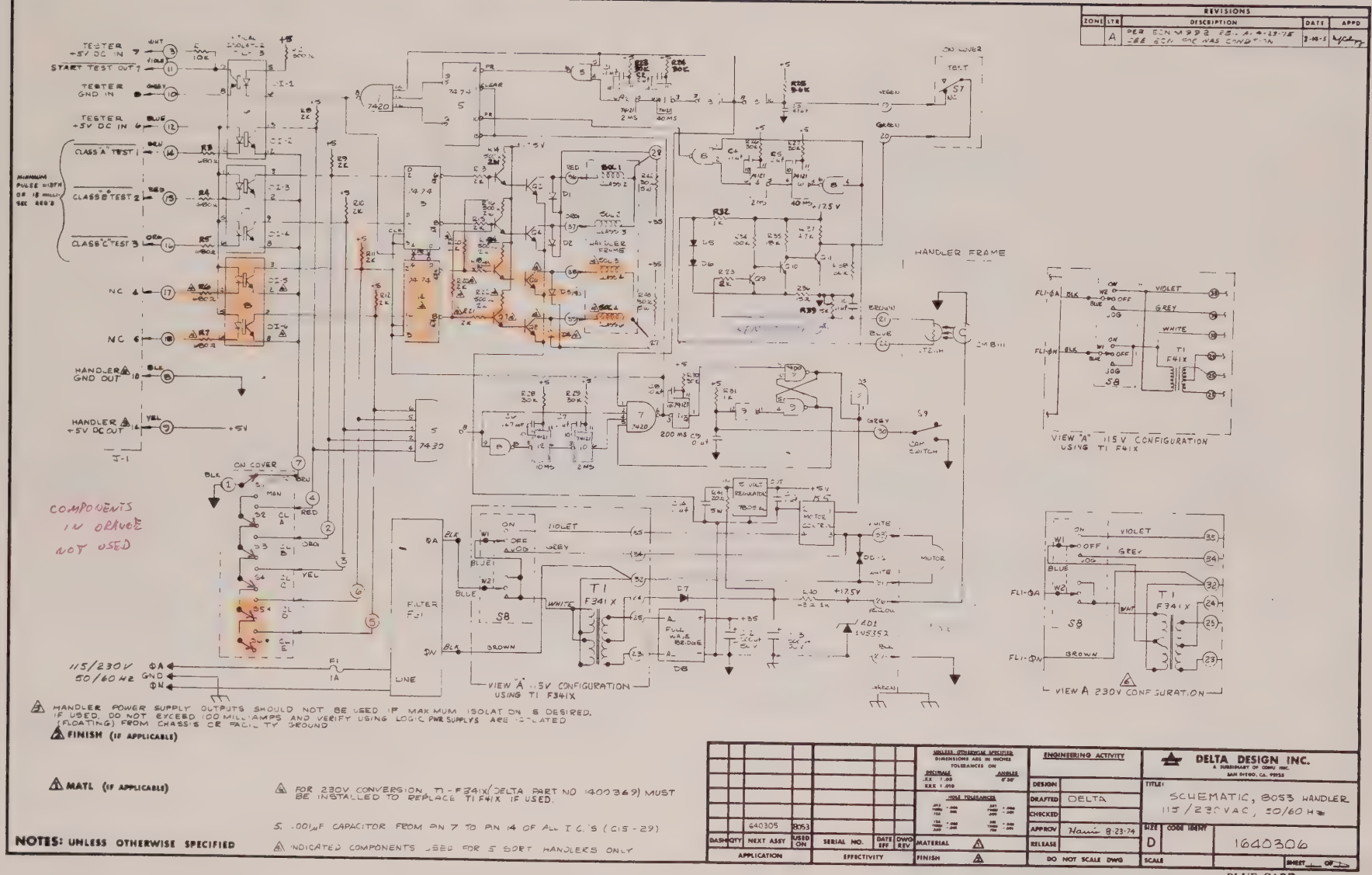
REV	ECN	DATE	BY	APPD	NOTES

TITLE & MODEL NUMBER USAGE

P/L MODEL 8053

BY	AHMED.	9-25-74	NEXT ASSY.
CHK			
APPD	R Brooks	9-25-74	

P/L 1640305 REV SHT 4 OF 4



REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPD
	A	PER ECN M992 (E. A. 4-29-75 USE ECN ONE WAS CANCELLED IN	5-16-75	

⚠ HANDLER POWER SUPPLY OUTPUTS SHOULD NOT BE USED IF MAXIMUM ISOLATION IS DESIRED. IF USED, DO NOT EXCEED 100 MILLIAMPS AND VERIFY USING LOGIC PWR SUPPLYS ARE ISOLATED (FLOATING) FROM CHASSIS OR FACILITY GROUND

⚠ FINISH (IF APPLICABLE)

⚠ MATL (IF APPLICABLE)

⚠ FOR 230V CONVERSION, T1 - F341X (DELTA PART NO 1400369) MUST BE INSTALLED TO REPLACE T1 F41X IF USED.

5. .001μF CAPACITOR FROM PIN 7 TO PIN 14 OF ALL I.C.'S (C15 - 29)

⚠ INDICATED COMPONENTS USED FOR 5 SORT HANDLERS ONLY

NOTES: UNLESS OTHERWISE SPECIFIED

DASH QTY	NEXT ASSY	USED ON
	640305	8053
APPLICATION		

SERIAL NO. | DATE EFF | DWG REV
EFFECTIVITY

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
DECIMALS .XX ± .03 .XXX ± .010
ANGLES 0°30'
HOLE TOLERANCES

MATERIAL ⚠
FINISH ⚠

ENGINEERING ACTIVITY

DESIGN	
DRAFTED	DELTA
CHECKED	
APPROV	Hans 8-23-74
RELEASE	

DO NOT SCALE DWG

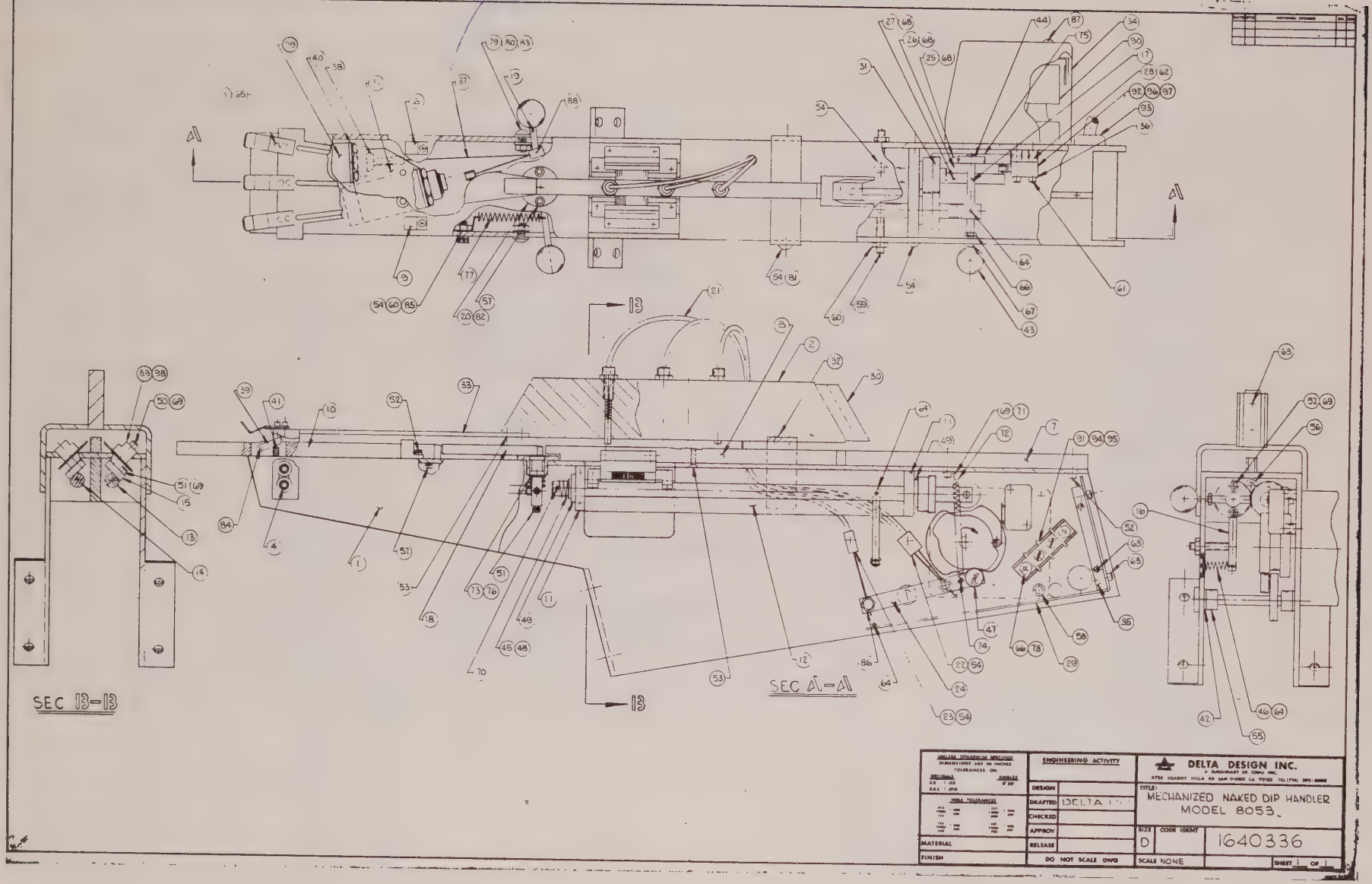
DELTA DESIGN INC.
A SUBSIDIARY OF CONIC INC.
SAN DIEGO, CA. 92123

TITLE: SCHEMATIC, 8053 HANDLER 115/230VAC, 50/60Hz

SIZE	CODE IDENT	
D		1640306

SCALE | SHEET ___ OF ___

BLUE CARD



UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON DECIMALS .XX ± .03 .XXX ± .010 ANGLES ± 30' MIN TOLERANCES	ENGINEERING ACTIVITY	DELTA DESIGN INC. A SUBSIDIARY OF CONMI INC. 9723 KEARNY VILLA RD SAN DIEGO CA 92123 TEL (714) 279-6880
	DESIGN	TITLE: MECHANIZED NAKED DIP HANDLER MODEL 8053
	DRAFTED DELTA	
	CHECKED	
	APPROV	SIZE D CODE IDENT 1640336
MATERIAL	RELEASE	SCALE NONE SHEET 1 OF 1
FINISH	DO NOT SCALE DWG	

DELTA DESIGN INC. 5725 KEARNY VILLA RD. SAN DIEGO, CA. 92123

ITEM NO	ASSY. & QTY. -001		-003	-004	SIZE	DWG. NUMBER	PART DESCRIPTION	MFG.& MFG. PART NO	STOCK OR PART NO
00	x				D	1640336	MECHANIZED NAKED DIP HANDLER		
							MODEL 8053		
1	1					D1711	CHANNEL HOUSING		4100664
2	1					B1312	TRACK CAP		4100502
3	3					A1716A	SPRING CUP		4100644
4	2					A1448	NUT BAR		4100668
5	1					A1719A	SOLENOID BRACKET		4100669
6	1					A1720	PHOTOCELL MOUNT		4100670
7	1					A1317	TRACK (IN)		4100507
8	1					A1318	TRACK (DELRIN)		4100508
9	1					A1721	LAMPMOUNT		4100671
10	3					A1714	TRACK (OUT)		4100666
11	2					A1321	BUSHING MOUNT		4100511
12	1					B1322	CENTER SUPPORT		4100512
13	1					A1323	CONTACT SHAFT (LEFT)		4100513
14	1					A1324	CONTACT SHAFT (RIGHT)		4100514
15	2					A1325	ADAPTER (-9)		4100515
16	2					A1326	SPRING AND STOP SHAFT		4100516
17	1					A1327	FOLLOWER SHAFT		4100517
18	1					A1715A	GATE		4100667

REV	ECN	DATE	BY	APPD	NOTES

TITLE & MODEL NUMBER USAGE

MECHANIZED NAKED DIP HANDLER
MODEL 8053

BY	DELTA	1/31/5	NEXT ASSY.
CHK			
APPD			FINAL

P/L 1640336 REV SHT 1 OF 5

DELTA DESIGN INC. 5725 KEARNY VILLA RD. SAN DIEGO, CA. 92123

ITEM NO	ASSY. & QTY. -001		-003	-004	SIZE	DWG. NUMBER	PART DESCRIPTION	MFG.& MFG. PART NO	STOCK OR PART NO
19	1					A1712A	GATE LEVER		4100665
20	1					A1730	BUSHING		4100676
21	3					B1331	CABLE ASSEMBLY		4100521
22	1					B1332	CABLE BLOCK (DOUBLE)		4100522
23	1					A1333	CABLE BLOCK (SINGLE)		4100523
24	1					A1334	CAM LEVER		4100524
25	1					B1335	CAM (CONTACT)		4100525
26	1					B1336	CAM (MICRO-SWITCH)		4100526
27	1					B1337	CAM (ESCAPEMENT)		4100527
28	2					A1338	SPACER-MODIFIED		4100528
29	1					B1339	COVER		4100529
30	1					A1340	GUIDE		4100530
31	1					A1341	GEAR-MODIFIED		4100531
32	1					B1342	UPPER YOLK CAP		4100532
33	1					B1743	LOWER CAP YOLK		4100677
34	1					B1344	MOTOR COVER		4100534
35	2					A1345	COVER BAR		4100535
36	1					A1346	MICRO-SWITCH LEVER-MODIFIED		4100536
37	2					B1724A	CABLE ASSY		4100663 1644988
38	2					A1725	SOLENOID-MODIFIED		4100672
39	3					A1726	TRACK STOP PIN		4100673

REV	ECN	DATE	BY	APPD

NOTES

NEW #'S
1644987 - 4100521
1644988 - 4100663 DUAL SOLENOID CABLE ASSY $35.70
REQUEST 6-32 SCREWS

SCOTT HARLIN

TITLE & MODEL NUMBER USAGE

MECHANIZED NAKED DIP HANDLER
MODEL 8053

BY	DELTA	1/31/5	NEXT ASSY.
CHK			
APPD			FINAL

P/L 16403336 REV SHT 2 OF 5

DELTA DESIGN INC. 5725 KEARNY VILLA RD. SAN DIEGO, CA. 92123

ITEM NO	ASSY. & QTY. -001		-003	-004	SIZE	DWG. NUMBER	PART DESCRIPTION	MFG.& MFG. PART NO	STOCK OR PART NO
40	2					A1727	SPACER, SOLENOID		4100674
41	3					A1728	STOP SPRING		4100675
42	2						BUSHING	BOSTON FB-46-2	4100066
43	3						BALL KNOB	DAVIES 4901-6/32	1400292
44	2						RETAINER RING	TRUARC 5555-18	1500840
45	3						COMPRESSION SPRING .045x½x½	L&M LC-0456-1	4100450
46	2						TENSION SPRING .026x½x5/8	L&M LE-026C-1	4100433
47	1						CAM FOLLOWERS	BERG JE-4	3600057
48	3						SHAFT SPACER	BERG SS3-13	4100123
49	4						BUSHING	BOSTON FB-68-3	4100068
50	4						SOC. HD. SCREW	#4-40 x 7/8	6804407-808
51	5						SOC. HD. SCREW	#4-40 x 1/2	6804401-208
52	13						SOC. HD. SCREW	#4-40 x 3/8	6804403-808
53	8						SOC. FLAT HD. SCREW	#4-40 x 3/8	6804403-802
54	24						SOC. HD. SCREW	#8-32 x 3/8	6808323-808
55	2						COLLAR	BOSTON SSC-25	4100229
56	4						SOC. FLAT HD. SCREW	#8-32 x 1/2	6808321-202
57	2						SOC. HD. SCREW	#6-32 x 1/4	6806321-408
58	3						SOC. HD. SCREW	#10-32 x 3/8	6810323-808
59	2						SOC. SET SCREW	#8-32 x 1"	6808322-208
60	2						HEX NUT	#8-32	6706320

REV	ECN	DATE	BY	APPD	NOTES

TITLE & MODEL NUMBER USAGE

MECHANIZED NAKED DIP HANDLER
MODEL 8053

BY	DELTA	1/31/5	NEXT ASSY.
CHK			FINAL
APPD			

P/L 1640336 REV SHT 3 OF 5

DELTA DESIGN INC. 5725 KEARNY VILLA RD. SAN DIEGO, CA. 92123

ITEM NO	ASSY. & QTY. -001	[redacted]	-003	-004	SIZE	DWG. NUMBER	PART DESCRIPTION	MFG.& MFG. PART NO	STOCK OR PART NO
61	2						SOC. HD. SCREW	#4-40 x 1"	6804402-208
62	2						SOC. FLAT HD. SCREW	#4-40 x 1/4	6804401-4208
63	6						SOC. HD. SCREW	#6-32 x 3/8	6806323-808
64	5						ROLL PIN	3/32 x 3/8	1700250
65	6						SOC. HD. SCREW	#4-40 x 1/8	6804401-808
66	3						HEX NUT	#6-32	6706320
67	1						SOC. SET SCREW	#6-32 x 1"	1700070
68	3						SOC. SET SCREW	#6-32 x 1/4	1700198
69	46						WASHER, FLAT	NAS-620-4	1700071
70	2						ROLL PIN	3/32 x 3/4	1700251
71	1						SOLDER LUG #4	SMITH 412-4	1500065
72	1						TENSION SPRING .034 x 1/4 x2"	L&M LE-0340-7	4100353
73	1						COMPRESSION SPRING	L&M LC-0260-1	4100451
74	1						GROOVE PIN	3/32 x 3/4	1700075
75	1						TRACK ROLLER	FAFNIR K3L2	3400043
76	2						SHAFT SPACER	3/8ODx1/4IDx.010	1700072
77	1						TENSION SPRING .022x3/16x1-3/8	L&M LE-0228-4	4100435
78	4						SOC. FLAT HD. SCREW	#6-32 x 3/8	1700073
79	2						BUTTON HD. SCREW	#10-32 x 3/8	6810323-802
80	2						HEX NUT	#10-32	6710321
81	12						WASHER, FLAT	#8 x .437 x .047	6601000

REV	ECN	DATE	BY	APPD	NOTES

TITLE & MODEL NUMBER USAGE

MECHANIZED NAKED DIP HANDLER
MODEL 8053

BY	DELTA	1/31/5	NEXT ASSY.
CHK			FINAL
APPD			

P/L 1640336 REV SHT 4 OF 5

DELTA DESIGN INC. 5725 KEARNY VILLA RD. SAN DIEGO, CA. 92123

ITEM NO	ASSY. & QTY. -001		-003	-004	SIZE	DWG. NUMBER	PART DESCRIPTION	MFG.& MFG. PART NO	STOCK OR PART NO
82	2						BEARING	NMB SSRIF-614ZZH	3400007
83	4						WASHER, FLAT	#10 x 1/16 THK	6601000
84	3						ROLL PIN	1/16 x 1/8	1700076
85	1						SOLDER LUG #8	SMITH 412-8	1500095
86	2						CABLE CLAMP	WEINMANN 35W-17186	1500098
87	1						SELF TAPPING SCREW	#6-32 "A"	
88	1						COTTER PIN	1/16 x 1/2	1700074
89	2						KELVIN CONTACTOR -9 LEAD (18 LEAD)	CARROLL CONTACT SYST.	4100140 ~~8101~~ 875
90	1					A1347	MOTOR (50 RPM)	GRANGER 3M358	4100539
91	1						TERMINAL BLOCK	VERNITRON V31-02 OR	1400619
								CURTIS GBS-2	
92	1						ACTUATOR-MICROSWITCH	MICROSWITCH JV-207	1401007
93	1						STRAIN RELIEF BUSHING	QUEMENT G.C.CO.1523	1500086
94	1pkg						SPADE TERMINALS	SMITH 4847	1500096
95	1pkg						RING TERMINALS	SMITH 4991	1500097
96	2						MICROSWITCH	MICROSWITCH V3-101-0815	1401006
97	AR						FEMALE QUICK DISCONNECT	ICO-RALLY ITED-137-FR	2000269
98	2						CONNECTOR-9 LEAD	CARROL CONTACT SYST.	2000269
99	2						SOLENOID	LEDEX 174412-031	1800143

REV	ECN	DATE	BY	APPD	NOTES

TITLE & MODEL NUMBER USAGE

MECHANIZED NAKED DIP HANDLER
MODEL 8053

BY	DELTA	1/31/5	NEXT ASSY.
CHK			FINAL
APPD			

P/L 1640336 REV SHT 5 OF 5

MP MASTER
MA33492